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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER	
BULLOCK, JOSHUA	
ART UNIT	PAPER NUMBER
2162	

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/571,186	VAUCOIS, XAVIER	
	Examiner	Art Unit	
	JOSHUA BULLOCK	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01 December 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *17-36* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *17-36* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *12/01/2006*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Claims 17-36 are pending.

2. Claims 1-16 have been cancelled.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in United States on March 09, 2006. It is noted, however, that applicant has not filed a certified copy of the instant application as required by 35 U.S.C. 119(b).

4. Acknowledgment is made of applicant's claim for priority under 35 U.S.C. 119(a)-(d) based upon an application filed in United States on March 09, 2006. A claim for priority under 35 U.S.C. 119(a)-(d) cannot be based on said application, since the United States application was filed more than twelve months thereafter.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claims 17-36 are rejected under 35 U.S.C. 102(e) as being unpatentable over Alumbaugh et al. (US Pub. No. 2003/0172368 A1), hereinafter referred to as Alumbaugh.

In respect to Claim 17, Alumbaugh teaches:

- **a method of processing information** (Alumbaugh teaches [0002] the processing of information from multiple data sources.), **comprising: storing in a memory of an information processing system: a plurality of individually identified information-bearing entities ("IBEs")** (Alumbaugh teaches [0047] schema elements which are information bearing entities.), **and a dictionary including a plurality of irreducible simple elements, each simple element having a meaning** (Alumbaugh teaches [0053] defining of elements which have a meaning.)
- **storing a plurality of dynamic structures in the memory** (Alumbaugh teaches [0233] storage of schema structures in the memory.), **each dynamic structure being stored in association with at least one stored IBE, the dynamic structure including at least one knowledge object, the knowledge object including a plurality of simple elements selected from the stored dictionary** (Alumbaugh teaches [0233] storage of schema structures with entities containing knowledge information and defined elements associated therewith. Alumbaugh further teaches [0009] dynamic changes to data structures.)

- **first information identifying the selected simple elements in the at least one knowledge object** (Alumbaugh teaches [0047] identification of elements.)
- **second information identifying links between the selected simple elements** (Alumbaugh teaches [0047] the relationship or link between identified elements.)
- **processing ones of the stored IBEs with a processor of an information processing system using the first and second information contained in the stored dynamic structures associated with the ones of the IBEs** (Alumbaugh teaches [0105, 0002, 0009] processing of dynamic structures.)

As per Claim 18, Alumbaugh teaches:

- **a number of knowledge objects and a number of simple elements included in each of the plurality of dynamic structures are subject to vary** (Alumbaugh teaches [0233] varying objects and elements associated with dynamic structures.)

As per Claim 19, Alumbaugh teaches:

- **the plurality of knowledge objects and plurality of simple elements included in the plurality of dynamic structures are subject to vary with time** (Alumbaugh teaches [0009] varying of data based upon time.)

As per Claim 20, Alumbaugh teaches:

- **the selection of simple elements identified by the first information and the links between the simple elements identified by the second information of each of the plurality of each dynamic structures are subject to vary with time** (Alumbaugh teaches [0009] varying of data based upon time.)

As per Claim 21, Alumbaugh teaches:

- **the selection of simple elements and the links between the simple elements are subject to vary with time in accordance with the processing the ones of the IBEs, the processing being performed under control of a user of the information processing system** (Alumbaugh teaches [0009] varying of data based upon time.)

As per Claim 22, Alumbaugh teaches:

- **a first simple element of the plurality of simple elements is included in each of at least some dynamic structures of the plurality of dynamic structures** (Alumbaugh [0233])

As per Claim 23, Alumbaugh teaches:

- **a knowledge object of each stored dynamic structure includes at least one attribute of a simple element included in the knowledge object, and the processing is performed using at least some attributes of the simple elements included in the ones of the**

plurality of dynamic structures (Alumbaugh teaches [0233, 0279] attributes of data structures and objects.)

As per Claim 24, Alumbaugh teaches:

- **attributes of the simple elements included in the plurality of dynamic structures have values, each value being selected from the group consisting of: values set by a user of the information processing system, and values calculated according to other information included in the dynamic structures which contain each simple element, and values calculated according to the number of occurrences of each simple element in all or a determined part of the dynamic structures which contain each simple element** (Alumbaugh teaches [0246] values associated with data elements.)

As per Claim 25, Alumbaugh teaches:

- **each stored dynamic structure further includes at least one knowledge object attribute associated with each knowledge object, wherein the processing step is performed using at least some attributes of the knowledge objects included in the plurality of dynamic structures** (Alumbaugh teaches [0233, 0279] attributes of data structures and objects.)

As per Claim 26, Alumbaugh teaches:

- **a value of the at least one knowledge object attribute is calculated from values of attributes of the simple elements contained in a**

particular knowledge object (Alumbaugh teaches [0233, 0279] attributes of data structures and objects.) (Alumbaugh teaches [0246] values associated with data elements.)

As per Claim 27, Alumbaugh teaches:

- **the step of storing the plurality of dynamic structures includes setting a value of at least one knowledge object attribute by an operator** (Alumbaugh teaches [0246] values associated with data elements.)

As per Claim 28, Alumbaugh teaches:

- **steps (a) and (b) are performed to create starting dynamic structures, the method further comprising performing the steps (a) and (b) under control of an authorized user of the information processing system with respect to the IBEs and the at least one knowledge object in each starting dynamic structure to create modified dynamic structures** (Alumbaugh teaches [0264, 0026] user interaction with a dynamic processing system.)

As per Claim 29, Alumbaugh teaches:

- **storing at least one base in the memory, the base including a plurality of dimensions, each dimension including at least some of the plurality of simple elements organized into a plurality of groups, the method further comprising using the information processing system to graphically display a layout indicating the**

organization of the plurality of dimensions and groups included in the base (Alumbaugh [0233])

As per Claim 30, Alumbaugh teaches:

- **each group is represented in the memory as a simple element, that simple element representing a group being selectable in knowledge objects in the same manner as other simple elements** (Alumbaugh [0233])

As per Claim 31, Alumbaugh teaches:

- **the stored dictionary includes a plurality of different bases, each of at least some of the plurality of simple elements being organized in at least one of multiple different groups or dimensions, and the displaying step includes displaying one of a plurality of visual organizations, each visual organization corresponding to a layout of one of the plurality of different bases** (Alumbaugh [0053, FIG. 3])

As per Claim 32, Alumbaugh teaches:

- **storing a user table in the memory, the user table including membership attributes of a plurality of users and identifiers associated with the plurality of users** (Alumbaugh teaches [0233] a table utilized in the memory.)
- **in accordance with a value of the membership attribute of the user, displaying a visual organization corresponding to the layout of a base designated by a membership attribute of a user, and, when**

necessary, displaying only a part of a base designated by the membership attribute of the user [0233]

As per Claim 33, Alumbaugh teaches:

- **the layout of a base is a tree-structure layout, and the layout of only a part of a base includes a limited number of tree-structure levels** [0088]

As per Claim 34, Alumbaugh teaches:

- **the processing step includes comparing the dynamic structures associated with at least two of the plurality of information-bearing entities** [0079]

As per Claim 35, Alumbaugh teaches:

- **the processing step includes comparing the dynamic structures associated with a plurality of the information-bearing entities with one or more dynamic structures belonging to one or more standard information-bearing entities** [0079]

As per Claim 36, Alumbaugh teaches:

- **the comparing step implements at least one of a mathematical or logical combination of at least one of presence or absence of simple elements in the plurality of dynamic structures, at least one of the presence or absence of simple elements together in knowledge objects of the dynamic structures, and values of attributes of simple elements and knowledge objects** (Alumbaugh

teaches [0079, 0088] comparing and relationships of elements and associated structures).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA BULLOCK whose telephone number is (571)270-1395. The examiner can normally be reached on 7:30am-5pm EST M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on 571-272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua Bullock /J. B. /
Examiner, Art Unit 2162
03/30/2009

/Shahid Al Alam/
Primary Examiner, Art Unit 2162